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Fire Commands for the M60A3 Tank

Multiple/Simultaneous Engagements

Final report

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Research was performed to develop tank gunnery sustainment training materials for M60A3 armor crewmembers. This research product consists of 6 booklets for use by tank commanders in maintaining their knowledge and skill in issuing basic fire commands. The first booklet (RP 83-01A) provides an overview of fire command knowledges and contains training notes. The remaining five booklets provide practice in: classifying threats (RP 83-01B); selecting ammo/weapons (RP 83-01C); sequencing fire command elements (RP 83-01D); issuing fire commands for single engagements (RP 83-01E); and issuing fire commands for multiple and (continued)

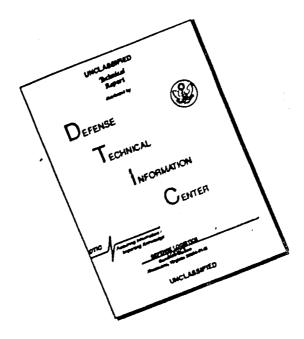
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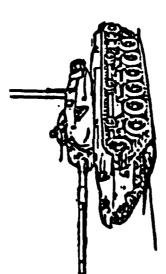
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simultaneous engagement	s (RP 83-01F).	1
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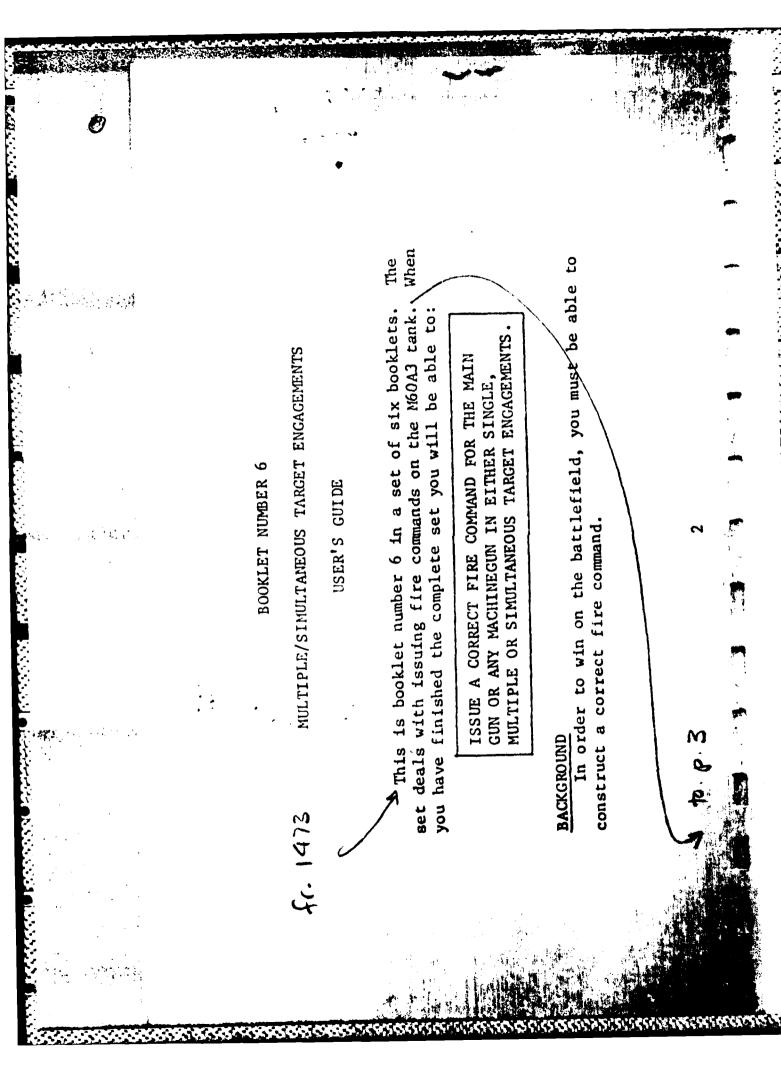
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FIRE COMMANDS FOR THE MGOA3 TANK

BOOKLET 6
MULTIPLE/SIMULTANEOUS TARGET ENGAGEMENTS



RESEARCH PRODUCT RP 83-1-F FOR THE BEHAVIORAL AND SOCIAL SCIENCES U.S. ARMY RESEARCH INSTITUTE



FEB 2 6 1886 Each scenario This booklet will give you practice in constructing fire A short written description of the battlefield situation, and commands for multiple and simultaneous engagements  $\mu$ keywords: The booklet contains battle field scenarios. question for you to answer. A picture of the battlefield, THIS BOOKLET fncludes:~ milability Codes Accession For Justification Distribution/ Unannounced GRALI DTIC TAB

### HOW TO USE THIS BOOKLET

- 1. Look at the scenario picture.
- . Read the written description.
- 3. Read the question following the description.

SOME QUESTIONS ARE FOLLOWED BY A LIST OF POSSIBLE ANSWERS. FOR THESE QUESTIONS, YOU SHOULD SELECT THE CORRECT ANSWER.

SOME QUESTIONS DO NOT HAVE ANSWERS. FOR THESE QUESTIONS YOU MUST PROVIDE YOUR OWN ANSWER.

- . Check your answer with the Answer Key on the page following the scenario.
  - 5. Refer to:
- FM-17-12-3

if you have any further questions.

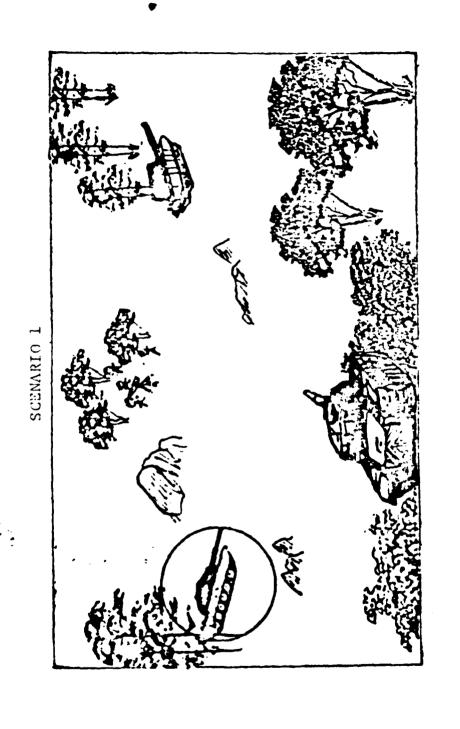
6. Complete the rest of the scenarios.

BEFORE YOU USE THIS BOOKLET

Before you use this booklet, be sure you have completed booklets 1 through 5 of this set.

TANK COMMANDER TRAINING NOTES

Training notes are presented in booklet 1.



#### THE SITUATION

Barbara Standard

- You are in a bounding overwatch, halted.
  - M60A3 is fully operational.
    - Round loaded is SABOT.
- A T-72 is off to your left, range 1700 meters.
  - A 1.22nm self propelled howitzer is to your
    - right, range 2500 meters.
- Almost direct front is a T-12A antitank gun, range more than 3000 meters.
  - The T-72 has seen you.
- The howitzer and antitank gun have not seen you.

How should the T-72 be classified?

N N

DANGEROUS THREAT

NUST DANGEROUS

THREAT

LEAST DANCEROUS THREAT

#### SCENARIO 1 ANSWER

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The correct answer is A: NOST DANGEROUS threat.

The T-72 is a MOST DANGEROUS threat because:

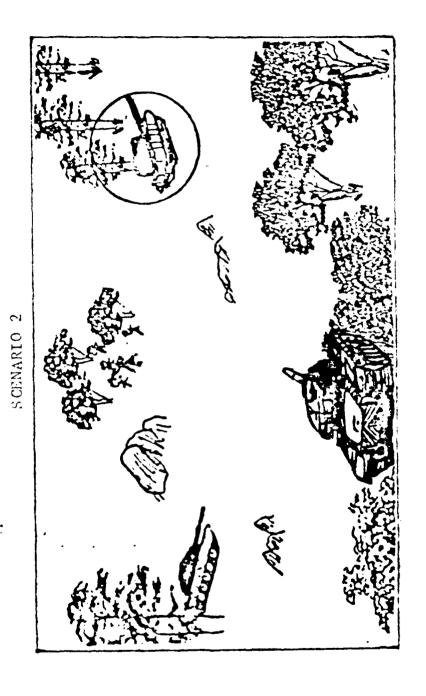
- It can kill you
- It sees you
- It is preparing to engage you

决

WRONG ANSWERS

T-72 has seen you.

T-72 can kill you.



## THE SITUATION (same as before)

- You are in a bounding overwatch, halted.
  - M60A3 is fully operational.
    - Round loaded is SABOT.
- A T-72 is off to your left, range 1700 meters.
  - A 122nm self propelled howitzer is to your
- right, range 2500 meters.

   Almost direct front is a T-12A antitank gun,
  - Almost direct front is a 1-12A antitank gun, range more than 3000 meters.
    - The T-72 has seen you.
- The howitzer and antitank gun have not seen you.

Now should the 122m howitzer be classified?

**ක**[

NOST DANGEROUS DANGEROUS THREAT LEAST DANGEROUS THREAT

### SCENARIO 2 ANSWER

The correct answer is B: DANGEROUS THREAT

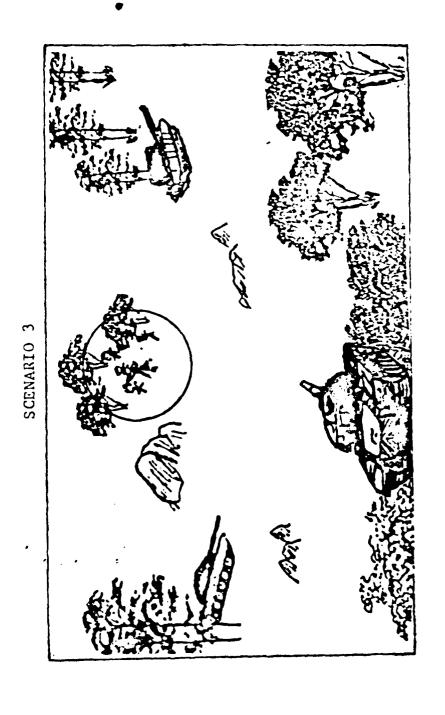
The howitzer is a DANCEROUS THREAT because it:

- Can kill you
- Has not seen you or
- Is not preparing to engage you

WRONG ANSWERS

A. It has not seen you.

C. It can kill you.



# THE SITHATION (same as before)

- You are in a bounding overwatch, halted.
  - M60A3 is fully operational.
- Round loaded is SABOT.
- A T-72 is off to your left, range 1700 meters.
  - A 122mm self propelled howitzer is to your
    - right, range 2500 meters.
- Almost direct front is a T-12A antitank gun,
  - range more than 3000 meters. The T-72 has seen you.
- The howitzer and antitank gun have not seen you.

llow should the T-12A be classified?

**~**|

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MOST DANCEROUS DANCEROUS LEAST DANCEROUS
THREAT THREAT

### SCENARIO 3 ANSWER

You should have selected B: DANGEROUS THREAT

The antitank gun is a DANGEROUS THREAT because it:

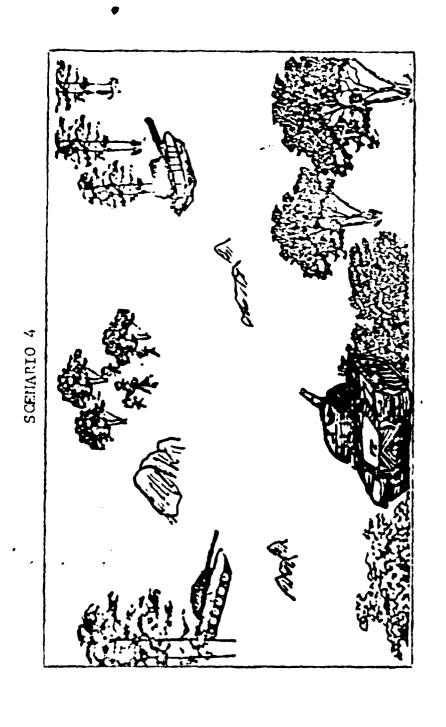
- Can kill you
- Has not seen you, or
- Is not preparing to engage you

-

WRONG ANSWERS

A. It has not seen you.

B. It can kill you.



## THE SITUATION (some as before)

- You are in a bounding overwatch, halted.
- M60A3 is fully operational.
- Nound Loaded is SABOT.
- A 1-72 is off to your left, range 1700 meters.
- A 122mm self propelled howitzer is to your right, range 2500 meters.
  - Almost direct front is a T-12A antitank gun, range more than 3000 meters.
    - The T-72 has seen you.
- The lowitzer and antitank gun have not seen you.

What is this kind of engagement called?

Multiple Simultaneous Single MOST target target DANGEROUS threat

### SCENARIO 4 ANSWERS

You should have selected A: Multiple target

This is a multiple target engagement because the main gun will be used against more than one target.

#### WRONG ANSWERS

- TC will not be engaging a target with the CAL 50 because they are out of range while gunner fires main gun.
- C. There is more than one target.
- D. This describes the target, not the engagement.



## THE SITUATION (same as before)

• You are in a bounding overwatch, halted.

■ M60A3 is fully operational.

Round toaded is SABOT.

• A T-72 Is off to your left, range 1700 meters.

• A 122mm self propelled howitzer is to your right, range 2500 meters.

• Almost direct front is a T-12A antitank gun, range more than 3000 meters.

The T-72 has seen you.

The howitzer and antitank gun have not seen you.

Which threat must you engage first?

(No choices this time. You have to figure out this one.)

#### SCENARIO 5 ANSWER

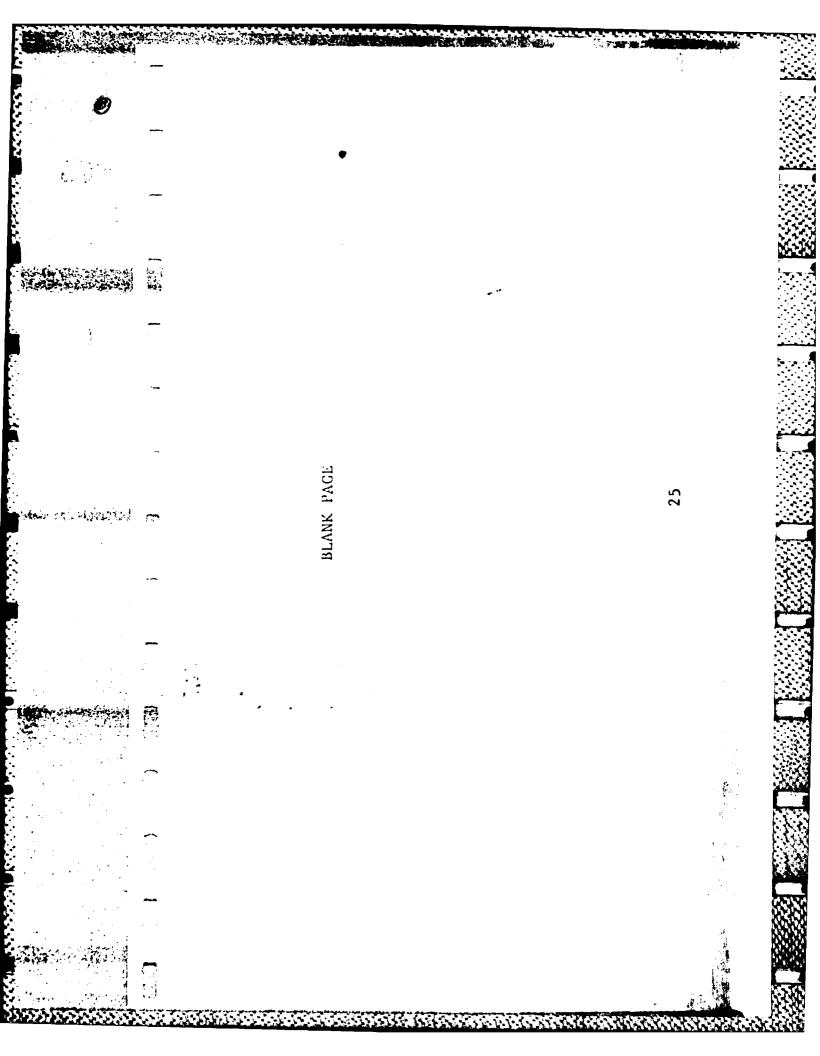
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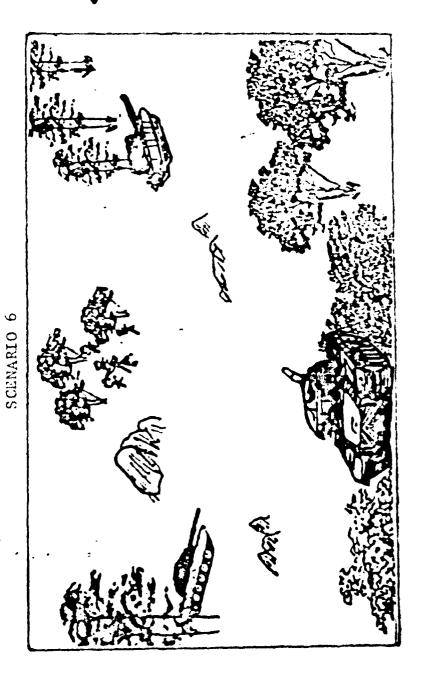
The correct answer is: The MOST DANGEROUS threat

The MOST DANGEROUS threat is always engaged first. In this situation, the MOST DANGEROUS threat is the T-72.

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## THE SITUATION (same as before)

- You are in a bounding overwatch, halted.
- M60A3 is fully operational.
  - Knund Fouded Is SABOT.
- A T-72 is off to your left, range 1700 meters.
- A 122nm self propelled howitzer is to your right, range 2500 meters.
  - Almost direct front is a T-12A antitank gun, range more than 3000 meters.
    - The T-72 has seen you.
- The howitzer and antitank gun have not seen you.

What is your fire command against the MOST DANGEROUS threat?

(Assume a first round hit.)

### SCENARIO 6 ANSWER

The correct fire command is:

GUNNER SABOT TANK

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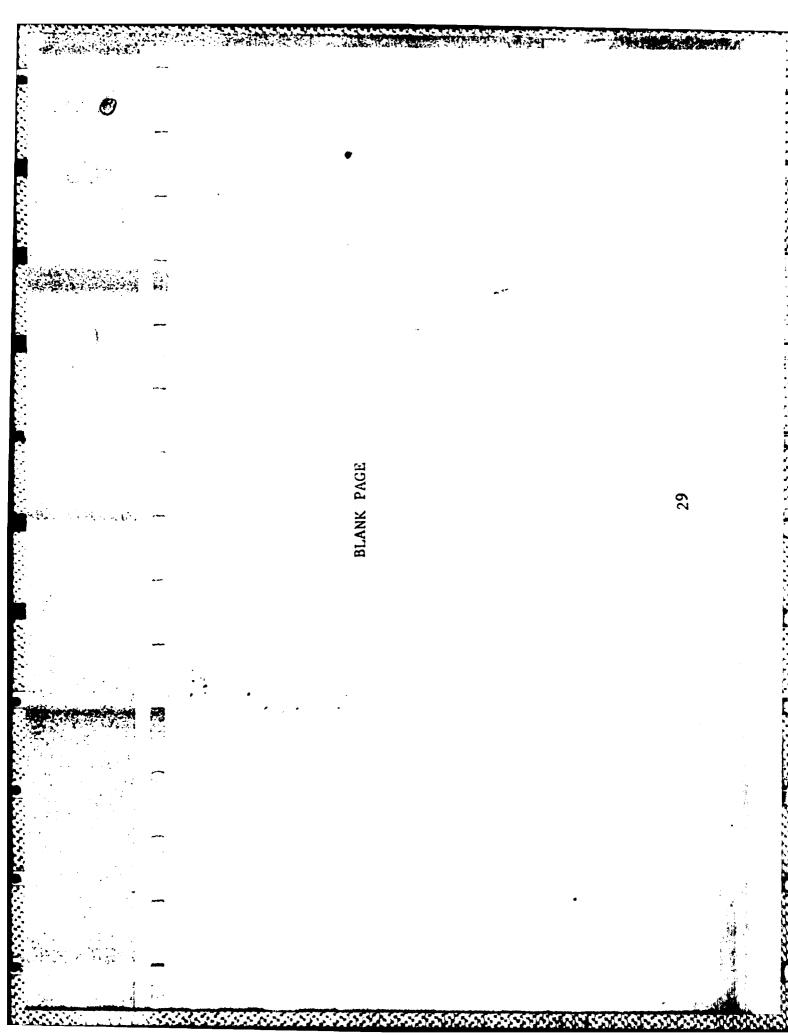
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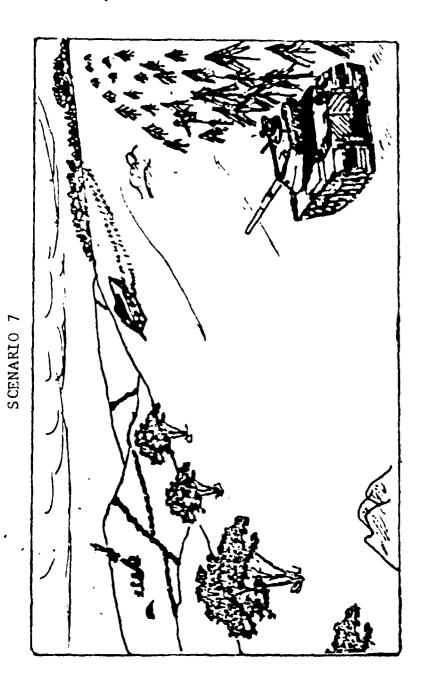
IDENTIFIED Cunner:

LASING

FIRE TC: ON THE WAY Gunner:

TARGET, CEASE FIRE TC:





#### HE SITUALION

- You are in a deliberate attack, moving.
- Your mission is to destroy enemy armor.
  - Round loaded is SABOT.
- You are advancing slowly, 5-8 mph.
  - Your M60A3 is fully operational.
- You see a dismounted SACGER off to your right, range 750 meters. It is ready for launch. The crew has seen you.
- There is a T-62 directly in front of you, range 1400 meters. His tube swings toward you.
- A T-12 antitank unit is providing area fire. The unit is located more than 3000 meters from you.

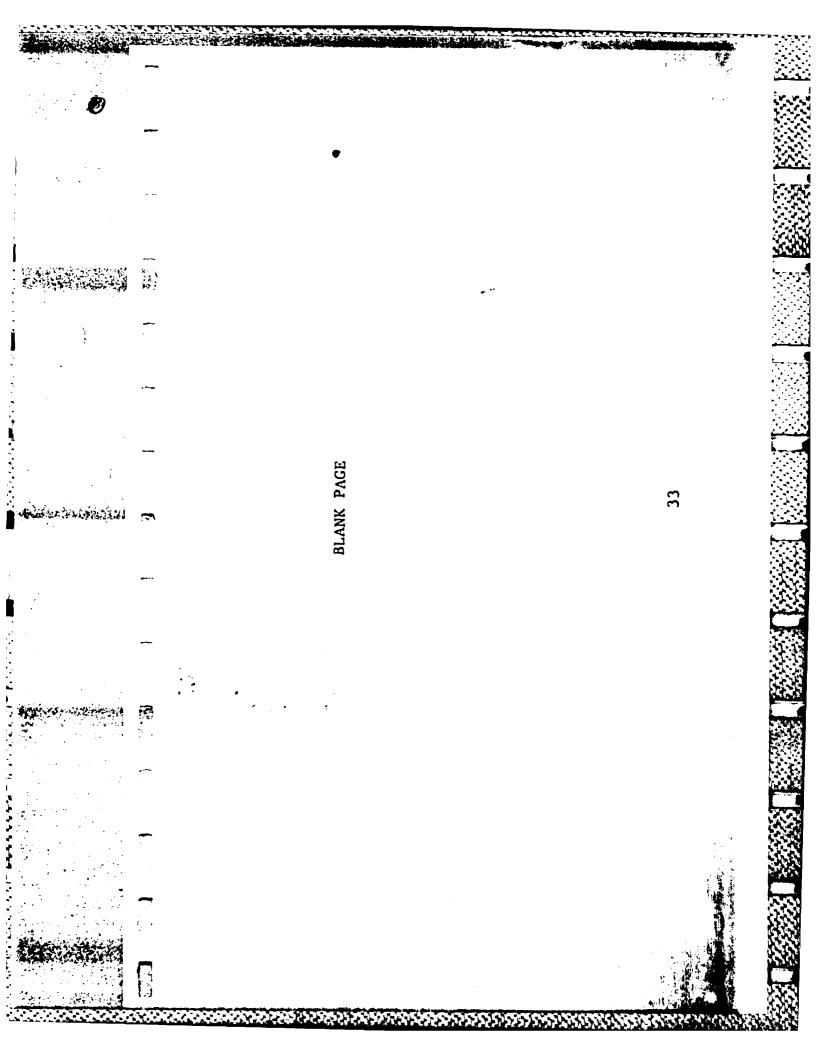
What target(s) is (are) classified as MOST DANGEROUS?

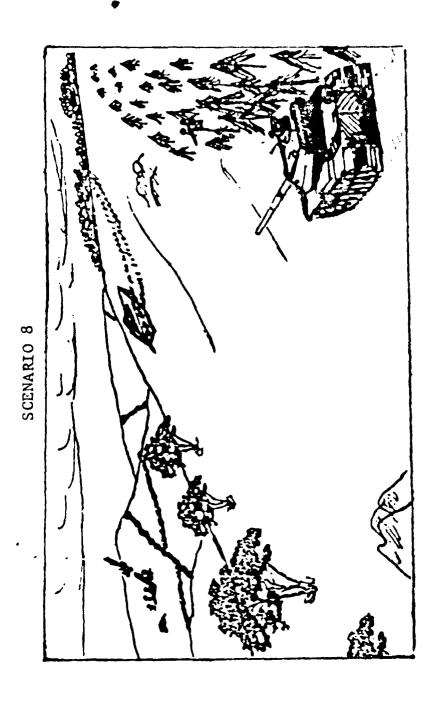
### SCENARIO 7 ANSWERS

The correct answer is: The T-62 and the SACGER

The T-62 and the SACCER are both MOST DANCEROUS threats because:

- They can kill you
- They have seen you
- They are preparing to engage you





# THE SITUATION (same as before)

- You are in a deliberate attack, moving.
  - Your mission is to destroy enemy armor.
    - Round loaded is SABOT
- You are advancing slowly, 5-8 mph.
  - Your M60A3 is fully operational.
- You see a dismounted SAGGER off to your right, range 750 meters. It is ready for launch. The crew has seen you.
- There is a T-62 directly in front of you, range 1400 meters. His tube swings toward you.
- A T-12 antitank unit is providing area fire. The unit is located more than 3000 meters from you.

Which target(s) is(are) classified as DANCEROUS threats?

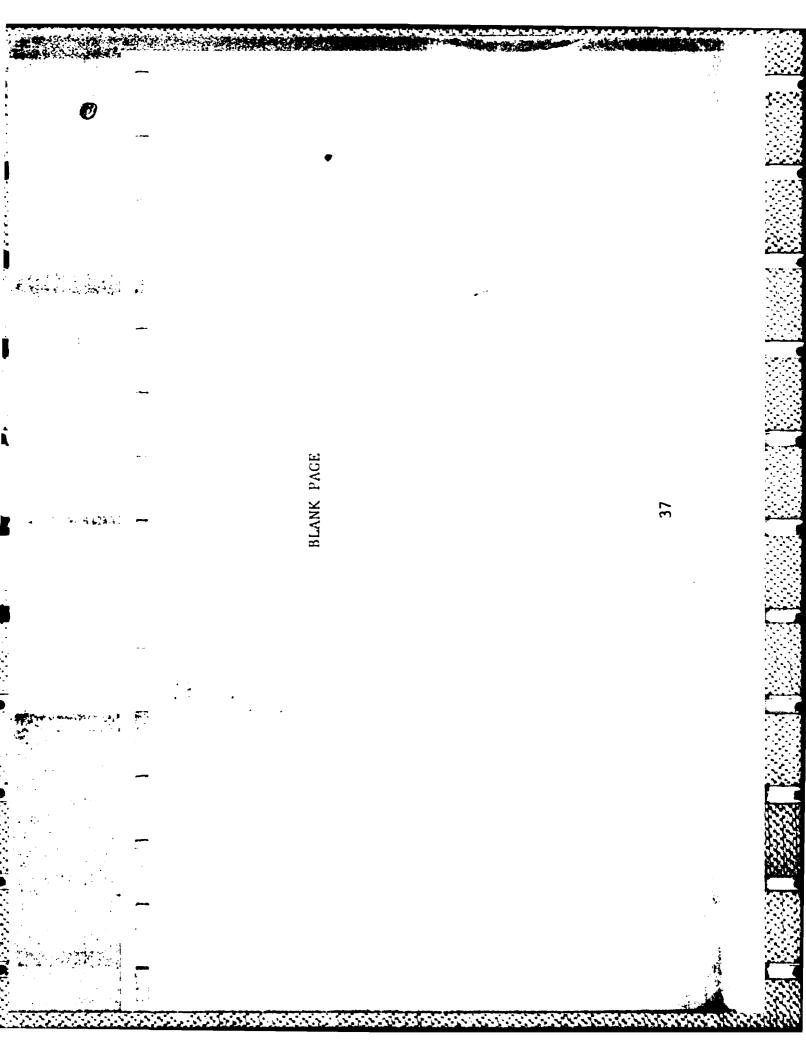
## SCENARIO 8 ANSWER

The DANGEROUS threat in this scenario is the T-12 antitank gun.

The T-12 is a DANCEROUS threat because it:

- Can kill you
- Has not seen you, or
- Is not preparing to engage you

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# THE SITUATION (same as before)

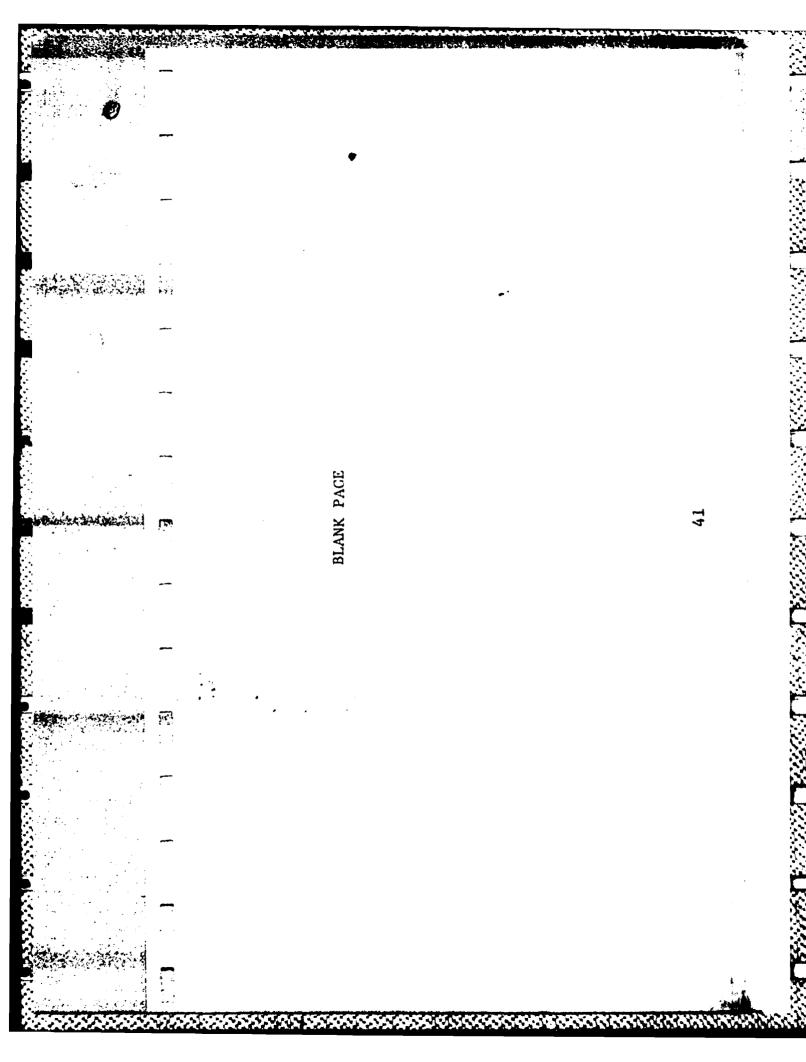
- You are in a deliberate attack, moving.
  - Your mission is to destroy enemy armor.
    - Round loaded is SABOT.
- You are advancing slowly, 5-8 mph.
  - Your M60A3 is fully operational.
- You see a dismounted SACGER off to your right, range 750 meters. It is ready for launch. The crew has seen you.
- There is a T-62 directly in front of you, range 1400 meters. His tube swings toward you.
- A 1-12 antitank unit is providing area fire. The unit is located more than 3000 meters from you.

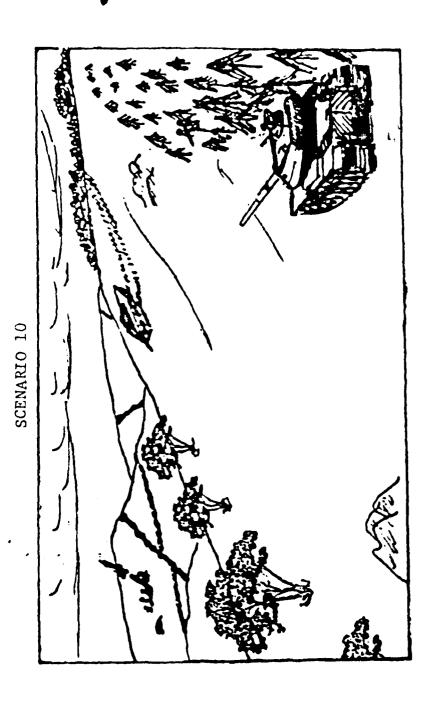
What targets, if any, are classified as LEAST DANCEROUS threats?

## SCENARIO 9 ANSWER

None of the targets described in this situation can be classified as LEAST DANGEROUS.

All of the targets present can kill you.





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- You are in a deliberate attack, moving.
  - Your mission is to destroy enemy armor.
    - Round Loaded is SABOT.
- You are advancing slowly, 5-8 mph.
  - Your M60A3 is fully operational.
- You see a dismounted SAGGER off to your right, range 750 meters. It is ready for launch. The
  - crew has seen you.

    There is a T-62 directly in front of you, range

1400 meters. His tube swings toward you.

• A T-12 antitank unit is providing area fire. The unit is located more than 3000 meters from you.

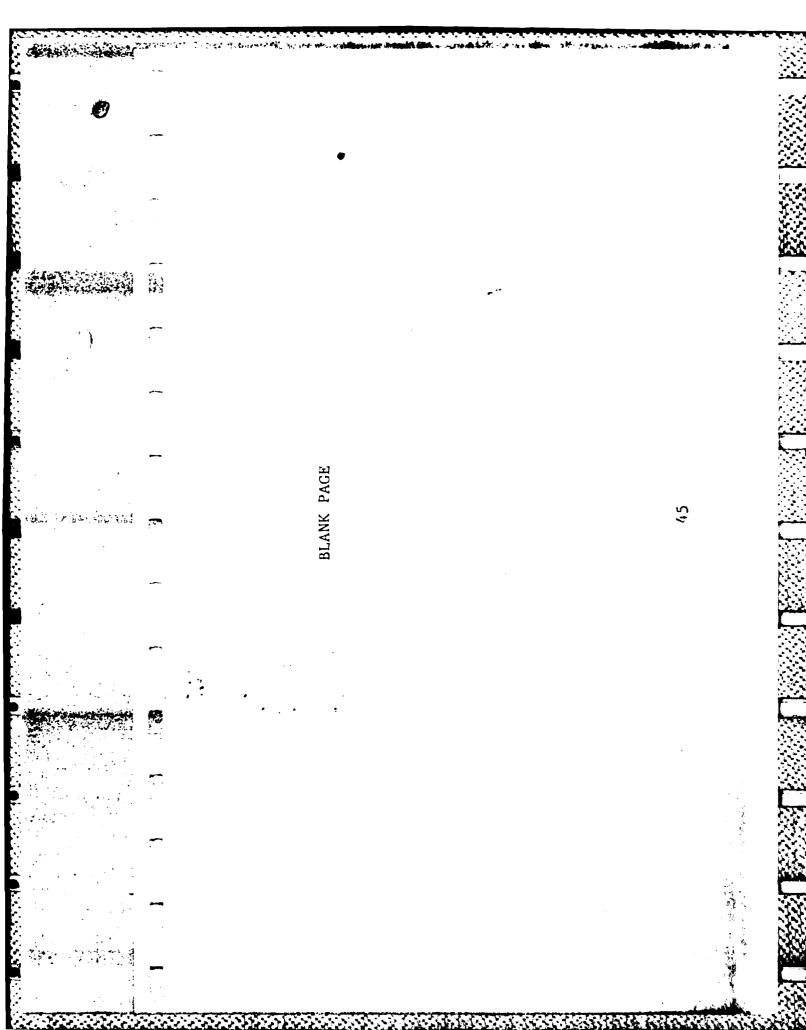
What kind of engagement would this be?

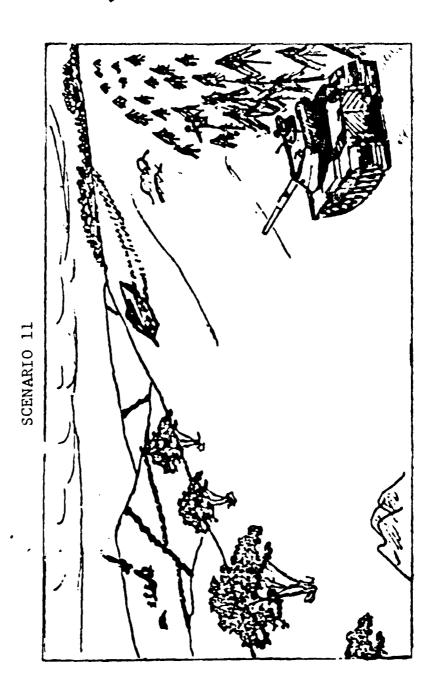
# SCENARIO 10 ANSWER

This scenario would require a simultaneous engagement.

Because there are two MOST DANGEROUS threats, you must make a simultaneous engagement and destroy them both. RIGHT AWAY!

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# THE SITUATION (same as before)

- You are in a deliberate attack, moving.
- Your mission is to destroy enemy armor.
  - Round loaded is SABOT.
- You are advancing slowly, 5-8 mph.
- range 750 meters. It is ready for launch. The crew has seen you.
- There is a T-62 directly in front of you, range 1400 meters. His tube swings toward you.
- A T-12 antitank unit is providing area fire. The unit is located more than 3000 meters from you.

What is your fire command against the MOST DANCEROUS threats?

What are the crew responses?

(Assume first round hits.)

# SCENARIO 11 ANSWER

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The best fire command for this simultaneous engagement isi

GUNNER SABOT TC:

TANK

ď Loader: IDENTI FIED Cunner:

LASING

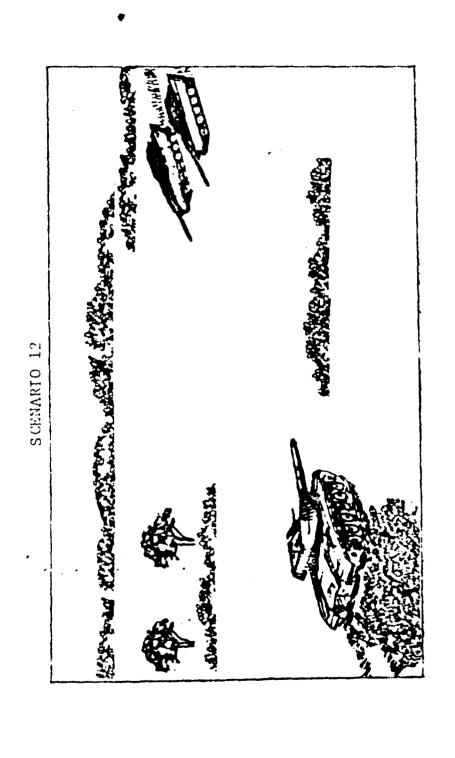
FIRE AND ADJUST, CALIBER FIFTY TC:

Gunner:

ON THE WAY TARGET, CEASE FIRE

ď Loader: TC COMPLETE TC:





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- You are in a deliberate attack, moving.
  - M60A3 is fully operational.
    - Round loaded is SABOT.
- You are advancing slowly, 5-8 mph. There are two T-72 tanks off to your right,
  - There are two T-/2 tanks off to your is grange 1800 meters. They both see you.

What is your fire command for the entire engagement? What are the crew responses?

(Assume first round hits.)

## SCENARIO 12 ANSWER

engagement. In this example, the fire command is against Since both targets are at the same range it is not necescommand was against the left tank first, then the right. This is a multiple the right tank first, then the left. It's okay if your Both of the T-72 tanks are MOST DANGEROUS threats. to the second target. must engage one and then the other. sary that the gunner lase

CUNNER SABOT TWO TANKS, RIGHT

Loader: Gunner:

IDENTIFIED

LASING

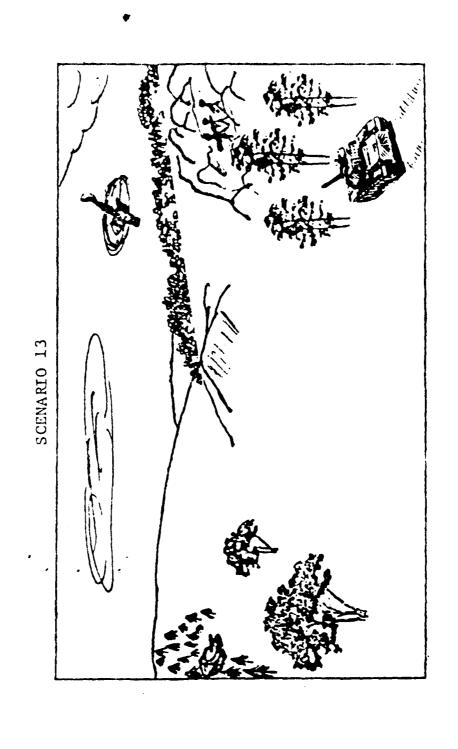
ON THE WAY TC: Gunnèr:

TARGET UP

TARGET, LEFT TANK IDENTIFIED FIRE ON THE WAY TARGET Loader:
TC:
Gunner:
TC:
Gunn er:

Loader: TC:

TARGET, CEASE FIRE



- Enemy forces have overrun many friendly defensive positions. You are under heavy attack.
  - You are trying to re-group amd establish a good defen-You are not there yet. sive position.
    - You see a 73mm recoilless antitank gun set up in some woods off to your right. Its range is about 1000
      - meters. He is ready to shoot.

         A T-72 is coming through the woods off to your left,
        - over 3000 meters away.
- A HIND helicupter with SAGGER ATGM mounted on rails comes over the tree line, sees you, and lines up for
  - a launch.
     Round loaded is HEAT.
- M60A3 is fully operational

What is your entire fire command? What are the crew responses?

(Assume first round hits.)

# SCENARIO 13 ANSWER

(The HIND and 73mm recoil-This must be a SIMULTANEOUS engagement because there are two (2) MOST DANGEROUS threats. less antitank gun.)

The correct fire command is:

TC: GUNNER HEAT

CHOPPER

Loader: UP

Cunner: IDENTIFIED

LASING

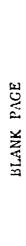
TC: FIRE AND ADJUST, CALIBER FIFTY

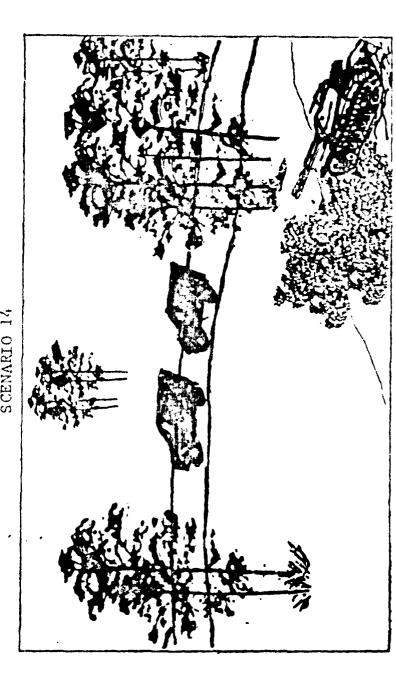
Cunner: ON THE WAY

TARCET, CEASE FIRE

Loader: UP

TC: TC COMPLETE





SCENARIO 14

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- You are in a deliberate defense.
- Your orders are to engage all hostile units.
- You are turret down, and there is a stand of trees off to your right which screens you from the road.
  - M60A3 is fully operational.
    - Round loaded is SABOT.
- Two trucks appear moving down the road about 800 meters away.

What are the crew responses? What are your fire commands? (Assume first round hits.)

# SCENARIO 14 ANSWER

classified as LEAST DANCEROUS THREATS. How-This is a simultancous engagement using the ever, your orders are to engage all hostile COAX and CAL 50. Note that the trucks are Your fire command should be:

GUNNER 7.C: COAX

TWO MOVING TRUCKS, FIRST TRUCK

3 Loader: IDENTIFIED Gunner:

LASING

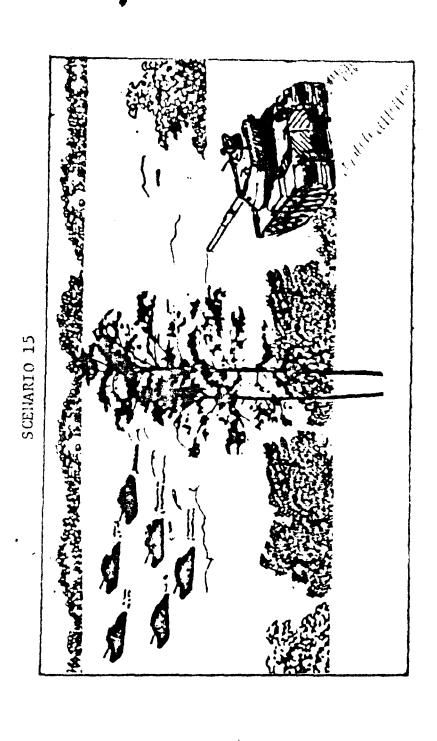
FIRE AND ADJUST CALIBER FIFTY TC:

Cunner:

ON THE WAY TARGET, CEASE FIRE

TC COMPLETE TC:

You could have made this a COAX multiple engagement if you wanted to, but there is the possibility that a truck or troops could escape.



• You are in a deliberate attack, moving.

Vour primary mission is to destroy enemy armor.

Your MGOA3 is fully operational. SABOT is loaded.

• You see six T-62 tanks, at a range of about 2000 meters. They are retreating.

What are the crew responses? What is your fire command? (Assume first round hits.)

## SCHARIO 15 ANSWER

There are too many of the same targets to be engaged selectively. The best thing to do is to allow the gunner to select the targets and engage them as rapidly as possible. The fire command that does that is "TARGETS OF OPPORTUNITY". The gunner will then choose the target and the TC will observe target effects. The fire commands and responses are like this

C: CUNNER SABOT

TARGETS OF OPPORTUNITY

Loader: UP

Gunner: IDENTIFIED LASING

TC: FIRE

Gunner: ON THE WAY

TARGET Loader: UP

Gunner: LASING, ON THE WAY TARGET

Loader: UP

Gunner: LASING. ON THE WAY TARGET

Loader: UP

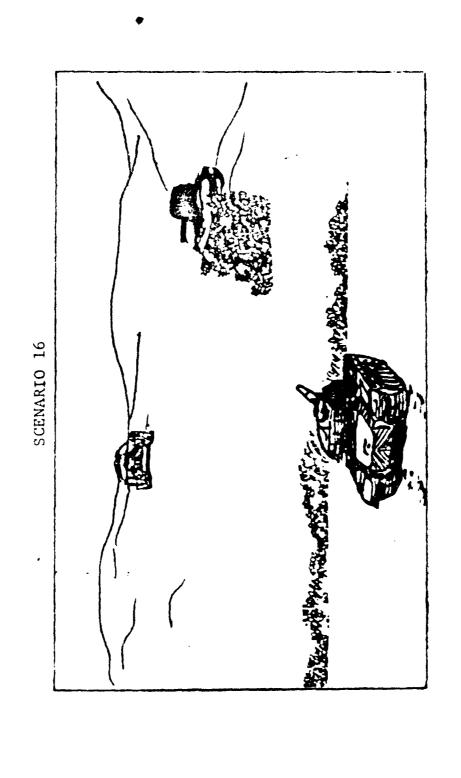
Gunner: LASING, ON THE WAY TARGET

Loader: UP

Gunner: LASING, ON THE WAY TARGET

Loader: UP

Gunner: LASING, ON THE WAY TC: TARGET, CEASE FIRE



- You are attacking and have penetrated the outer ring of enemy defenses.
- Your Laser Rangefinder has failed.
- You are using the TTS, day channel.
- see 122mm self propelled howitzer. He does not see you. 900 meters, you Off to your right, at a range of about
  - A T-72 approaches your direct front, range 1000 meters.
    - Round loaded is SABOT.

What is your INITIAL fire command up to when the gunner says ON THE WAY? What are the crew responses? (Do not assume a first round hit.) CENTRO 16 ANSWER

For the INITIAL fire command, the MOST DANGEROUS threat is the T-72. The laser rangefinder has failed, so you should use TTS BATTLESIGHT. The initial fire command is.

GUNNER BATTLESICHT TWO MOVING TANKS

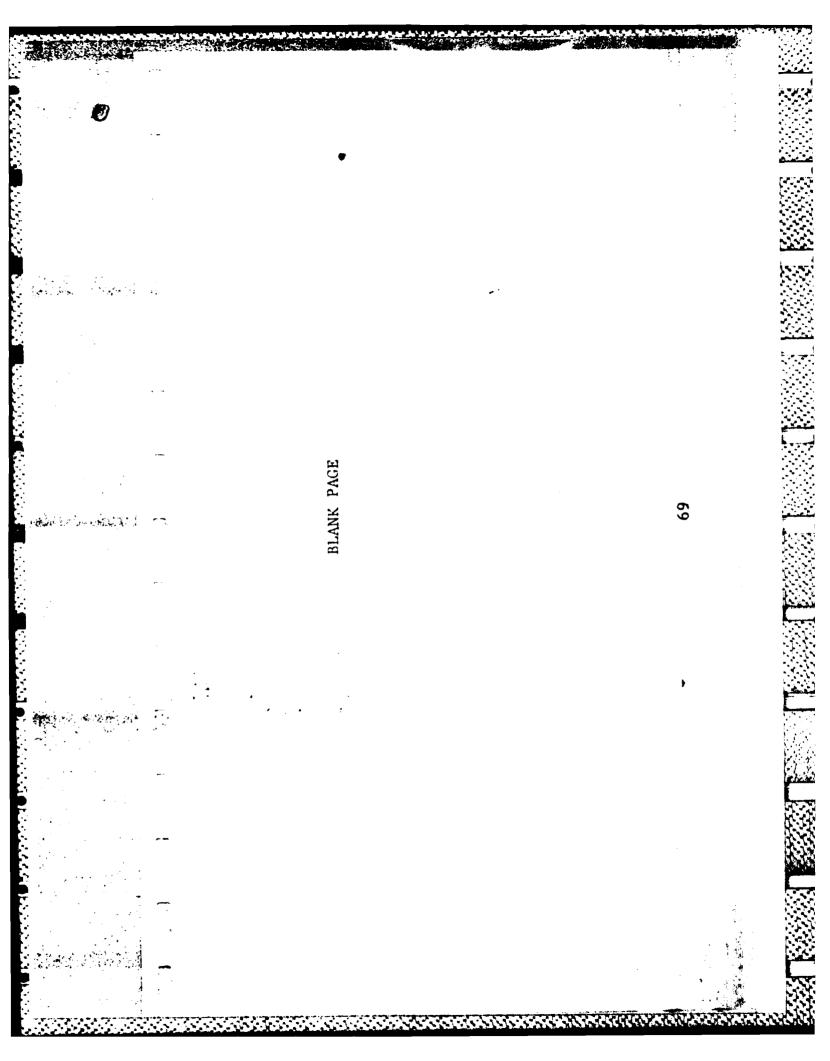
ader: UP

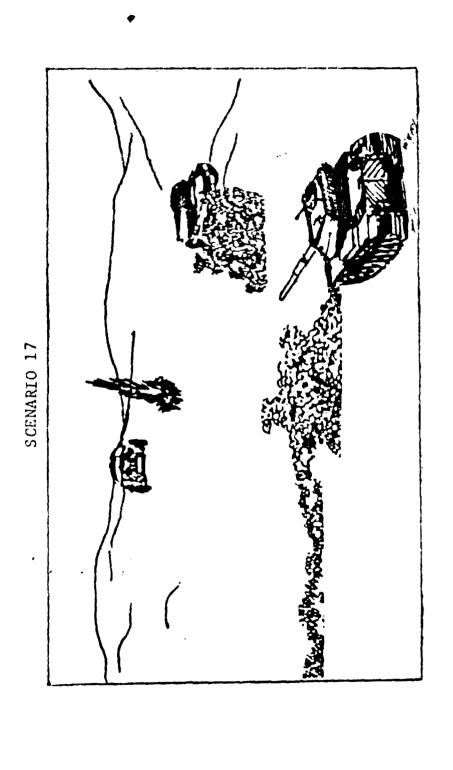
nner: IDENTIFIED

1 ': FIRE

Gunner: ON THE WAY

NOW TURN THE PACE TO SEE THE RESULTS OF THIS FIRST SHOT.





- The picture shows where the first shot went.
  - The gunner reports SHORT.
- You agree with this observation, but, you want to assist the gunner in making the proper adjustments.

What is the adju tment command you would give to the gunner?

## SCENARIO 17 ANSWER

Your adjustment command must have four (4) elements. They are:

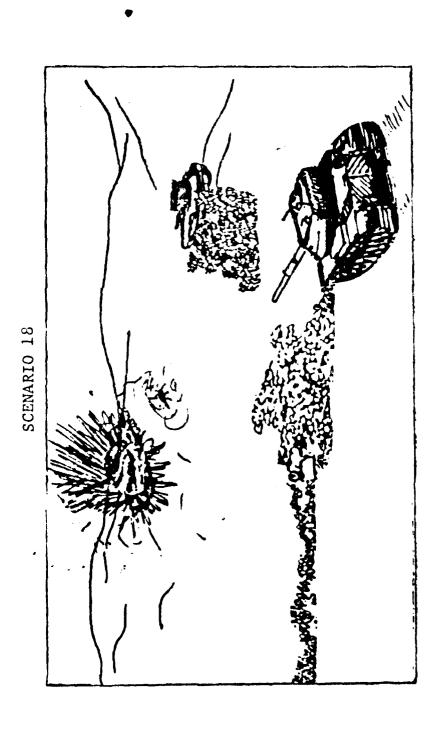
ALERT
DEFLECTION CORRECTION
RANGE CORRECTION
EXECUTION

The command you give should look something like this:

SHORT
LEFT ONE FORM OR LEFT ONE
ADD ONE FORM
FIRE
FIRE

As long as your command has the four elements in this order AND the correction is expressed using STANDARD MIL or TARGET FORM adjustment, you got it RIGHT!

NOW TURN THE PAGE TO SEE THE RESULTS OF THE SECOND SHOT.



• ZAP!! Your second shot blasts the T-72.

What is your next fire command? What are the crew responses? (Do not assume a first round hit.)

## SCENARIO 18 ANSWER

You'r fire command should be:

TARCET RICHT TANK

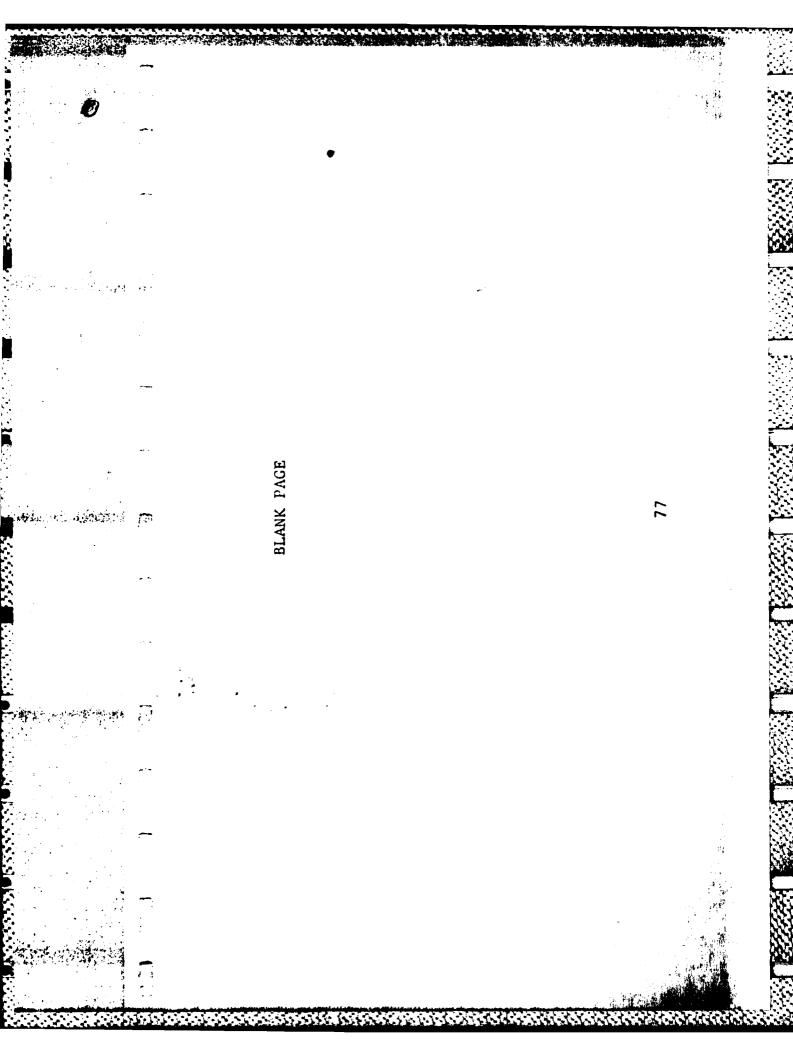
Loader: UP

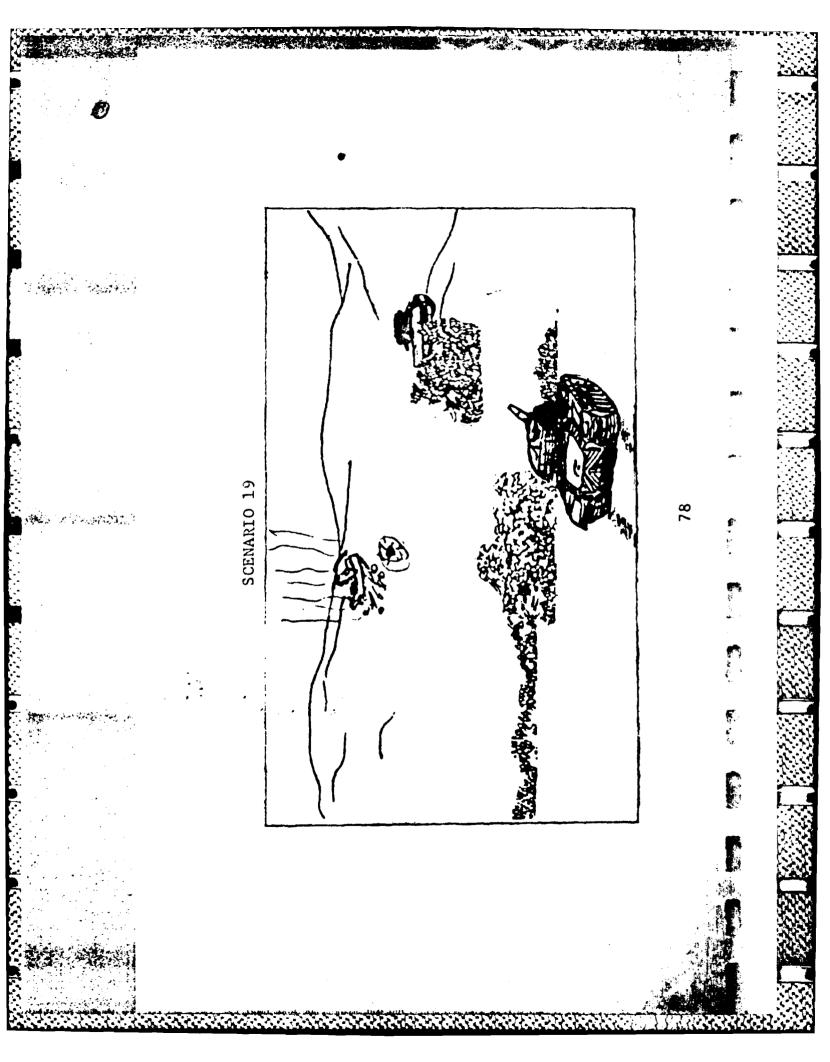
Cunner: IDENTIFIED

TC: FIRE

Gunner: ON THE WAY

Remember - You are still using the TTS battle-sight. The next target that had to be engaged was the 122mm self propelled howitzer, a tanklike vehicle.





- A round was fired at the 122mm self propelled howitzer.
  - The gunner announces: LOST.
- You do not have an observation either.

What is your next fire command? What are the crew responses?

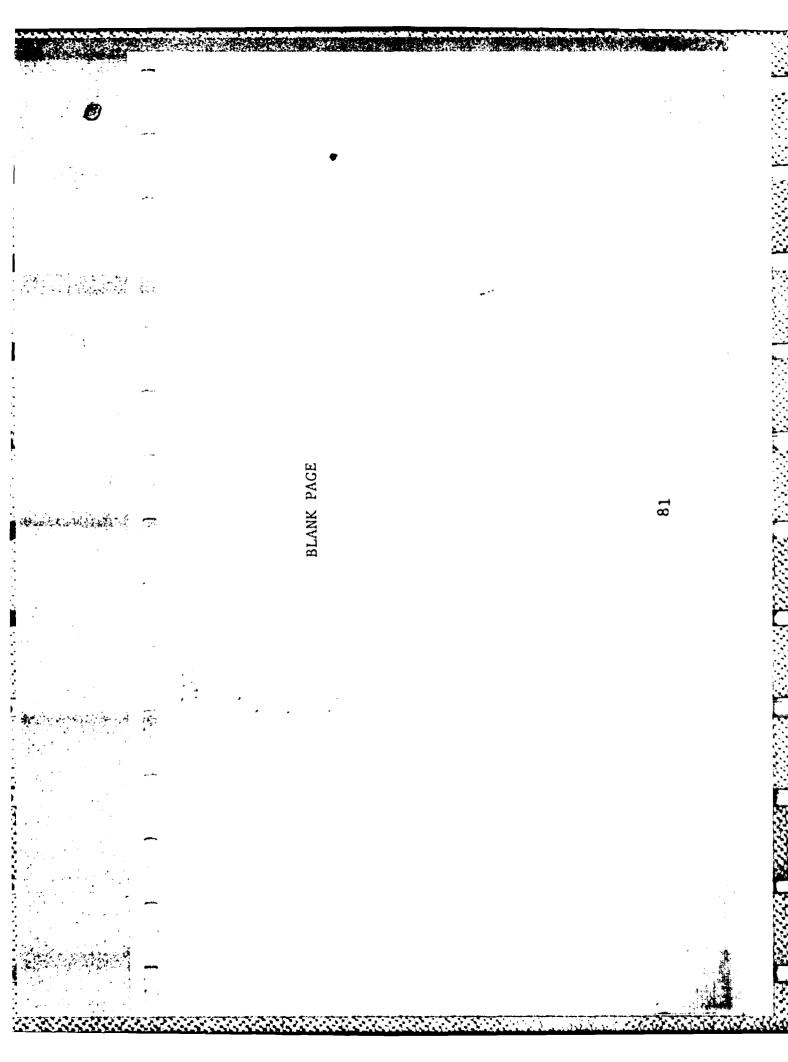
(Do not assume a hit.)

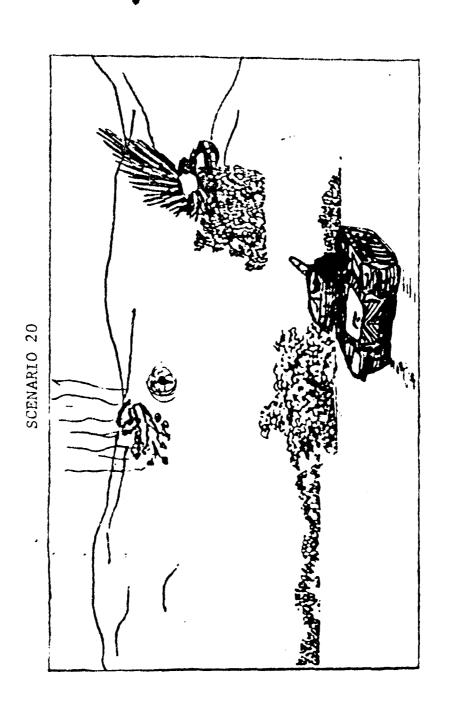
# SCENARIO 19 ANSWER

In a double-lost situation, the TC could remain silent and let the gunner apply Standard Mil Adjustment. Given the knowledge the TC has of the terrain, the TC should issue a subsequent fire command such as:

LOST
DROP ONE OR DROP ONE FORM
FIRE

NOW TURN THE PAGE TO SEE THE RESULTS OF THIS ACTION!

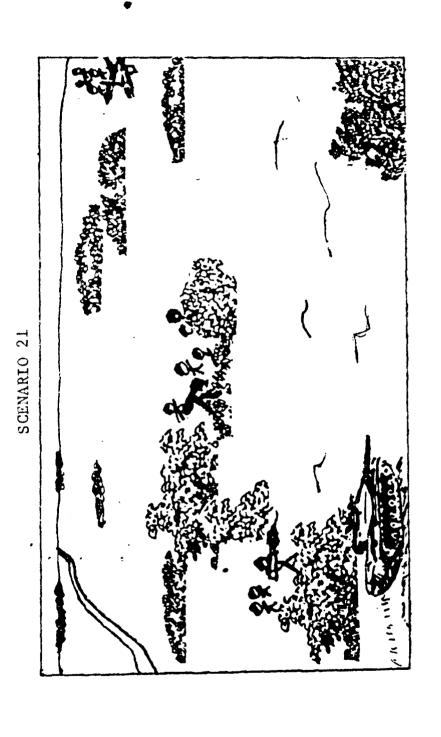




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- The situation looks great!
  - Good shooting!
- You scored a direct hit!
- The gunner reports: TARGET
- Vou announce "TARGET CEASE FIR
  - Your engagement is over.

You are in luck: No questions this time.



- You are the lead element in a traveling overwatch.
  - Your M60A3 is fully operational, moving 5-8 mph.
    - Round Tonded is SABOT.
- Suddenly you come upon enemy troops.
- There is a RPG team off to your left at 500 meters.
  - An SPG-9 73mm recoilless rifle is spotted on the left front, 750 meters.
- Direct front there is a manpack SAGGER ATCM ready for launch, range 1500 meters.
  - All these threats see you and are preparing to

What are your fire commands: What are the crew responses?

(Assume first round hits.)

# SCENARIO 21 ANSWER

You are faced with three (3) MOST DANGEROUS threats. You must engage these targets right away. There's nowhere to seek defilade. Your fire commands should be:

IC: GUNNER

COAX

RPG

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Loader: UP

Cunner: IMENTIFIED LASING

TC: FIRE AND ADJUST, CALIBER FIFTY

Gunner: ON THE WAY
TARGET, CEASE FIRE

TC COMPLETE

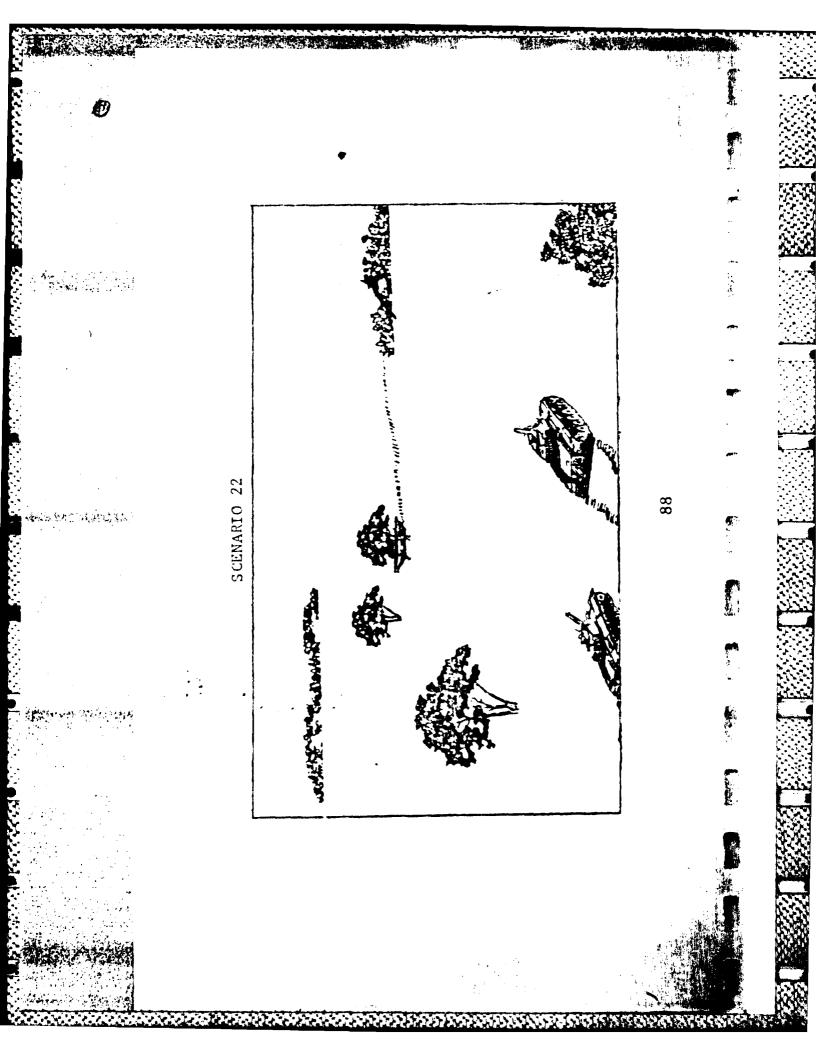
TC:

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NOTE: The TC would engage both the SPG-9
73mm recoilless rifle and the manpack
SAGGER ATGM. Once the gunner announces
TARGET, CEASE FIRE he should assist the TC.

This engagement will be extremely difficult to accomplish. If a defilade position is available, the TC should announce it before issuing the initial fire command. For example:

TC: DRIVER, SHEK DEFILADE



- You are the lead element in a bounding overwatch.
  - The LRF has failed.
- Round loaded is SABOT.
- M60A3 is fully operational, moving at 5-8 mph.
  - You see a T-72 direct front at 1000 meters.
- There is a T-12A antitank gun, right front, at 1000 meters.
  - They both see you.

What are your fire commands?

What are the crew responses?

(Assume first round hits.)

# SCEPARIO 22 ANSWER

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You must make a simultaneous engagement because BOTH of these targets are MOST DANCEROUS threats. You also must use BATTLESICHT because your luser rangefinder has falled. The correct fire command is:

FC: GUNNER BATTLESIGHT TANK

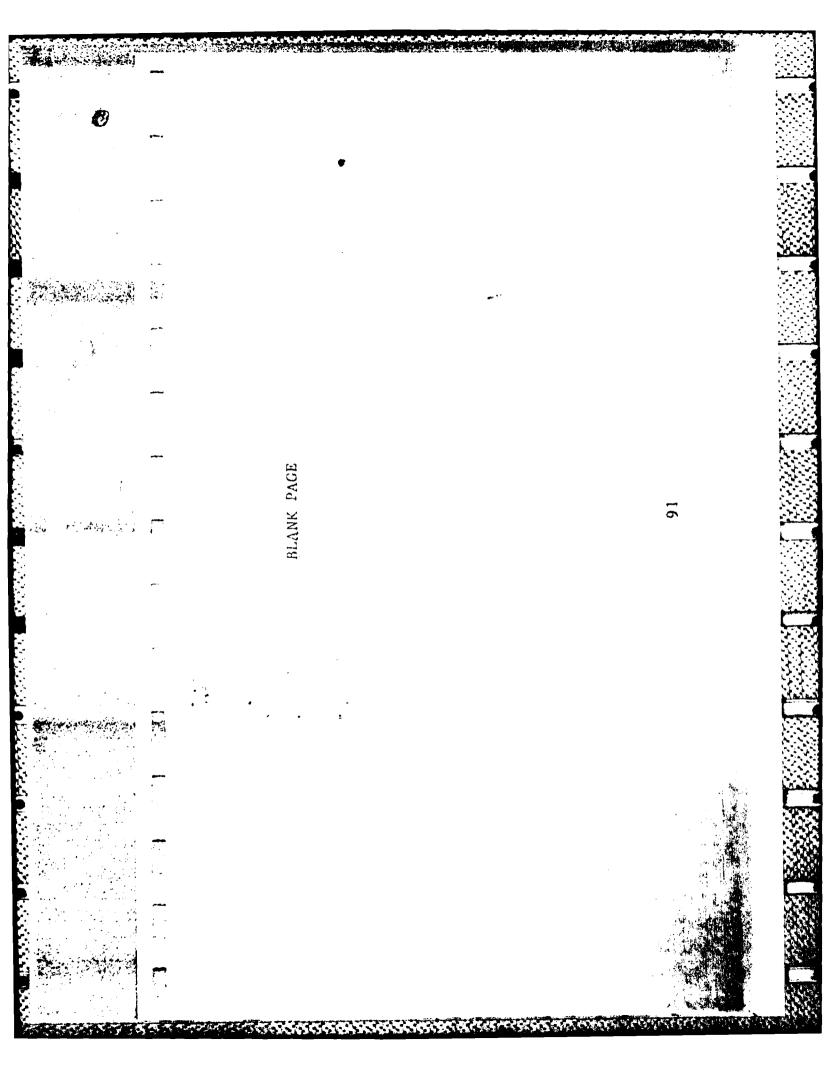
Loader: UP

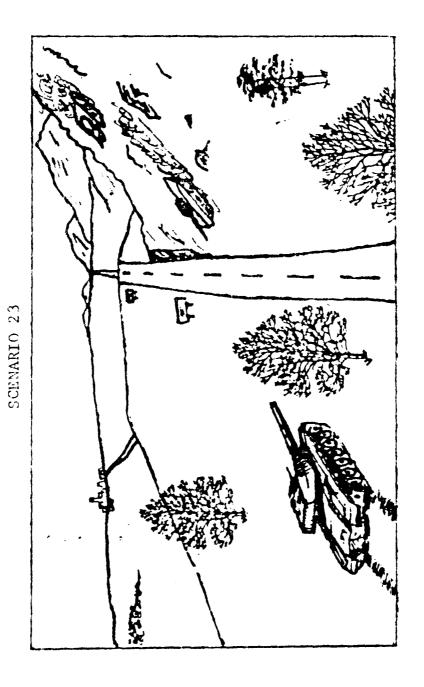
Gunner: IDENTIFIED

TC: FIRE AND ADJUST, CALIBER FIFTY

Gunner: ON THE WAY
TARGET, CEASE FIRE

TC: TC COMPLETE 90





• You have penetrated enemy's security zone.

• M60A3 is fully operational, moving at 5-8 mph.

Round loaded is SABOT.

Two T-72s are coming from your right, at 1500 meters.

They see you.

• You issue this fire command:

C: GUNNER SABOT

TWO MOVING TANKS, FIRST TANK

Loader: UP

Gunner: CANNOT IDENTIFY

What should your next fire commands be? What are the crew responses?

(Assume first round hits.)

## CONARIO 23 ANSWER

You must take over the engagement yourself IMMEDIATELY! You announce:

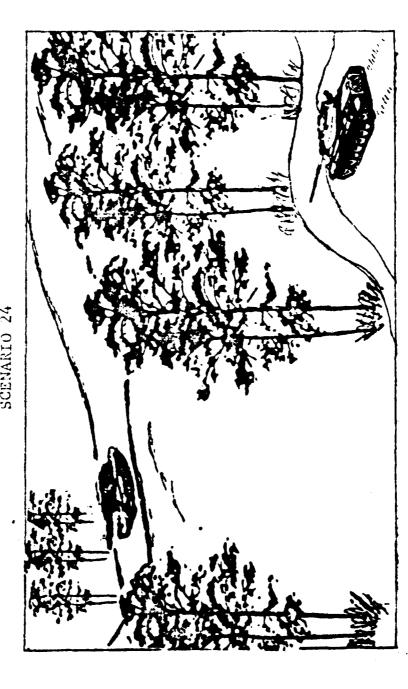
TC: FROM MY POSITION
LASING
ON THE WAY
TARGET

Loader: UP

TC: SECOND TANK
FROM MY POSITION
LASING
ON THE WAY
TARGET, CEASE FIRE

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if the gunner can identify the target(s) after the TC has engaged from his position, the gunner should announce IDENTIFED. The TC should then return control to the gunner immediately. This is done by announcing "FIRE".



SCENARIO 24

- You are in a defensive position.
  - Round loaded is SABOT.
- The LRF has failed.
- There is a T-72 at 1000 meters.
- You issue the following fire command:

GUNNER SABOT TANK What should you do next? What is the next scries of commands and crew responses?

# SCENARIO 24 ANSWER

The fire command: GUNNER SABOT TANK

was incorrect! It is a fire command for ITS precision gunnery. You know the laser rangefinder has failed. That means you must use BATTLESIGHT gunnery. Once you realize that, you must CORRECT the error by announcing:
"CORRECTION"

BATTLESICHT TANK TC:

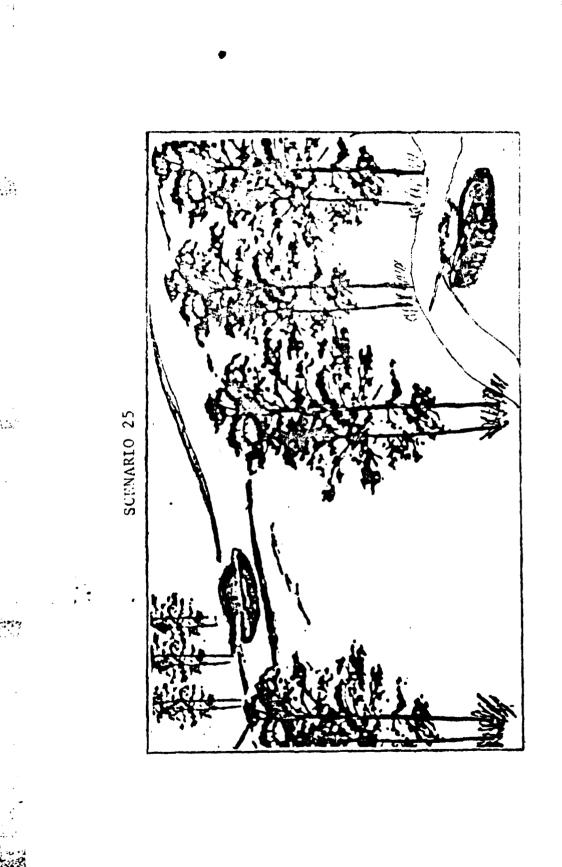
Loader:

I DENTI FIED LASING Gunner:

FI RE

ON THE WAY Cunner:

TARGET, CEASE FIRE TC:



THE SITUATION (same as before)

• You are in a bounding overwatch.

• Round loaded is SABOT.

• The LRF has failed.

• There is a T-72 at 1000 meters.

• You announce the following fire command:

GUNNER BATTLESIGHT TANK

Loader: UP

Gunner: TARGET?

What should you do next?

What is the next series of commands and crew responses?

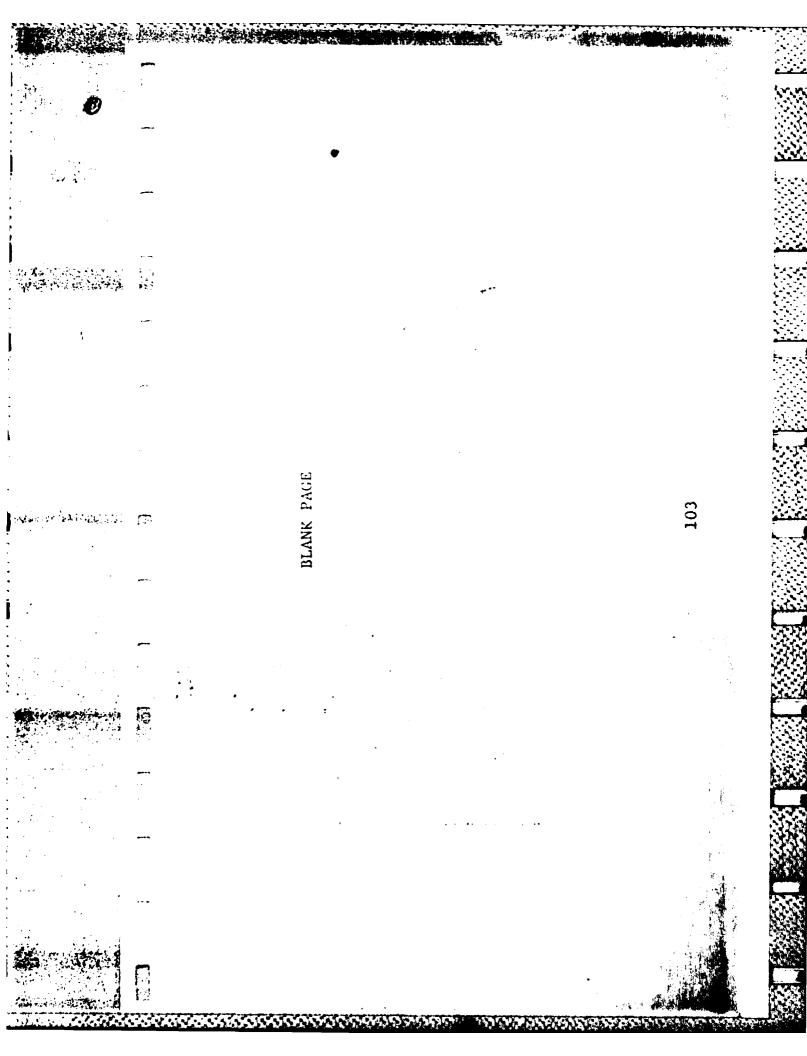
# SCENARIO 25 ANSWER

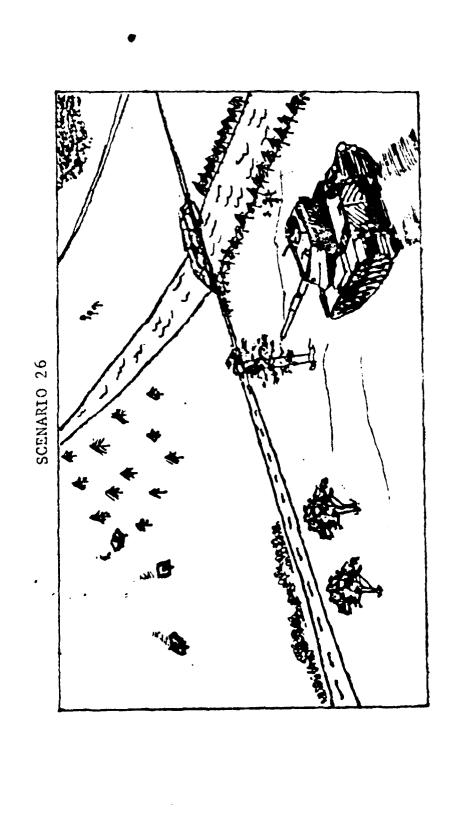
The Gunner either did not understand or hear the TARGET DESCRIPTION element of your fire command. All you have to do is repeat that element. You announce:

C: TANK

Gunner: IDENTIFIED

Now the fire command and crew responses can proceed as normal.





### THE STIUNTION

- You are in a bounding overwatch, moving 5-8 mph. Round loaded is SABOT.
- M60A3 is fully operational.
- You see three T-72 tanks, direct front at 2000 meters.
- They see you.
- You also see a manpack SAGCER ATCM being set up for launch at you, range 1000 meters.

What are your fire commands and crew responses? (Assume first round hits.)

# SCENARIO 26 ANSWER

you must make a MULTIPLE - SIMULTANEOUS engagement. In order to destroy the T-72s and SAGGER ATGM, Your fire command should be:

GUNNER SABOT THREE MOVING TANKS, LEFT TANK

ŝ Loader: I FENTIFIED Cunner:

LASING

F RE AND ADJUST, CALIBER FIFTY TC:

ON THE WAY Gunner:

B Loader: (Continued)

ON THE WAY (center tank)
TARGET Gunner:

Ę Loader:

TC COMPLETE . . . ON THE WAY (right tank) TARGET Gunner:

B Loader: TARGET, CEASE FIRE

range, the gunner should not lase to the next When targets are at approximately the same target(s) NOTE:

The M60A3 Fire Command Booklets are protectype training documents. For comments or questions contact:

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